

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/528, 845 A  
Source: PLT  
Date Processed by STIC: 02/02/2006

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 02/02/2006

PATENT APPLICATION: US/10/528,845A

TIME: 11:42:24

Input Set : A:\00185660.ST25.txt

Output Set: N:\CRF4\02022006\J528845A.raw

3 <110> APPLICANT: DSM IP ASSETS B.V.  
 5 <120> TITLE OF INVENTION: A Gene Encoding Vitamin B6 Phosphate Phosphatase And Use  
 Thereof  
 7 <130> FILE REFERENCE: 21419 US (C038435/0185660)  
 9 <140> CURRENT APPLICATION NUMBER: 10/528,845A  
 C--> 10 <141> CURRENT FILING DATE: 2005-03-23  
 12 <160> NUMBER OF SEQ ID NOS: 12  
 14 <170> SOFTWARE: PatentIn version 3.3  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 20  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Sinorhizobium meliloti  
 21 <400> SEQUENCE: 1  
 23 Ala His Ala Ile Asp Tyr Ser Val Val Pro Ala Asp Pro Ala Leu Gly  
 24 1 5 10 15  
 27 Glu Ala Ile Lys  
 28 20  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 14  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: Sinorhizobium meliloti  
 36 <400> SEQUENCE: 2  
 38 Ile Asp Thr Ala Asn Ala Val Met Phe Glu Asp Leu Pro Arg  
 39 1 5 10  
 42 <210> SEQ ID NO: 3  
 43 <211> LENGTH: 23  
 44 <212> TYPE: PRT  
 45 <213> ORGANISM: Sinorhizobium meliloti  
 47 <400> SEQUENCE: 3  
 49 Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly Ile Asp  
 50 1 5 10 15  
 53 Pro Asn Asp Phe Leu Glu Arg  
 54 20  
 57 <210> SEQ ID NO: 4  
 58 <211> LENGTH: 10  
 59 <212> TYPE: PRT  
 60 <213> ORGANISM: Sinorhizobium meliloti  
 62 <400> SEQUENCE: 4  
 64 Met Lys Lys Leu Asp Arg Met Pro Thr His  
 65 1 5 10  
 68 <210> SEQ ID NO: 5  
 69 <211> LENGTH: 21  
 70 <212> TYPE: DNA  
 71 <213> ORGANISM: Artificial Sequence

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73 <220> FEATURE:
74 <223> OTHER INFORMATION: Primer CN02
77 <220> FEATURE:
78 <221> NAME/KEY: misc_feature
79 <222> LOCATION: (12)..(12)
80 <223> OTHER INFORMATION: n is inosine
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: (18)..(18)
85 <223> OTHER INFORMATION: n is inosine
87 <400> SEQUENCE: 5
W--> 88 atgaaraary tngaymgnat g 21
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 20
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Primer C642
100 <220> FEATURE:
101 <221> NAME/KEY: misc_feature
102 <222> LOCATION: (12)..(12)
103 <223> OTHER INFORMATION: n is a, g, c or t
105 <220> FEATURE:
106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (15)..(15)
108 <223> OTHER INFORMATION: n is a, g, c or t
110 <400> SEQUENCE: 6
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115 <211> LENGTH: 21
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Primer C101
122 <400> SEQUENCE: 7
123 gccgaattcg cccatgtcac c 21
126 <210> SEQ ID NO: 8
127 <211> LENGTH: 21
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Primer C102
134 <400> SEQUENCE: 8
135 cgccgtgtcg atgcggtgaa g 21
138 <210> SEQ ID NO: 9
139 <211> LENGTH: 708
140 <212> TYPE: DNA
141 <213> ORGANISM: Sinorhizobium meliloti
143 <400> SEQUENCE: 9

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144 atgaagaagc tgcaccgcat gccgaccac gccgaattcg cccatgtcac cgactgggctc      60
146 ttcgacctcg acaacacgct ctatccgcat cagctcaatc tgttctcaca gatcgaccgc      120
148 aacatgacgg cctatgttgc cgaactcctg tcgctggagc ctgcggaggc gaagaagctg      180
150 cagaaggaat actaccgcga ccacggcacc acgcttcagg gcctgatgct tcatcacggc      240
152 atcgatccca atgatttcct cgaaagagcc cagcccatcg actatagcgt ggtgccggcc      300
154 gatccggcgc tcggcgaggc gatcaaggcg ctgcccggac gcaagttcat cttcaccaac      360
156 ggcagcgtcg cccatgcgga gatgaccgcg cgggcgctcg gcattctcga gcatttcaac      420
158 gacatcttcg acatcgtcgc cgccggcttc ataccgaagc ccgccggcga cacctacgac      480
160 aagttcatgg gccttcaccg catcgacacg gcgaatgagg tgatgttcga ggatctgccg      540
162 cgcaacctgg tcgtccctaa ggcgctcggc atgaagacgg tgctgctcgt gccgcgcaat      600
164 ctgcaatacg agttcgccga ggcctgggaa acgtcgagcg acgcggaaga tcagatcgac      660
166 tacgtcacgg aagacctggc gggtttcctg cgcagtgtga ttgtttag      708
169 <210> SEQ ID NO: 10
170 <211> LENGTH: 235
171 <212> TYPE: PRT
172 <213> ORGANISM: Sinorhizobium meliloti
174 <400> SEQUENCE: 10
176 Met Lys Lys Leu Asp Arg Met Pro Thr His Ala Glu Phe Ala His Val
177 1 5 10 15
180 Thr Asp Trp Val Phe Asp Leu Asp Asn Thr Leu Tyr Pro His His Val
181 20 25 30
184 Asn Leu Phe Ser Gln Ile Asp Arg Asn Met Thr Ala Tyr Val Ala Glu
185 35 40 45
188 Leu Leu Ser Leu Glu Pro Ala Glu Ala Lys Lys Leu Gln Lys Glu Tyr
189 50 55 60
192 Tyr Arg Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly
193 65 70 75 80
196 Ile Asp Pro Asn Asp Phe Leu Glu Arg Ala His Ala Ile Asp Tyr Ser
197 85 90 95
200 Val Val Pro Ala Asp Pro Ala Leu Gly Glu Ala Ile Lys Ala Leu Pro
201 100 105 110
204 Gly Arg Lys Phe Ile Phe Thr Asn Gly Ser Val Ala His Ala Glu Met
205 115 120 125
208 Thr Ala Arg Ala Leu Gly Ile Leu Glu His Phe Asn Asp Ile Phe Asp
209 130 135 140
212 Ile Val Ala Ala Gly Phe Ile Pro Lys Pro Ala Gly Asp Thr Tyr Asp
213 145 150 155 160
216 Lys Phe Met Gly Leu His Arg Ile Asp Thr Ala Asn Glu Val Met Phe
217 165 170 175
220 Glu Asp Leu Pro Arg Asn Leu Val Val Pro Lys Ala Leu Gly Met Lys
221 180 185 190
224 Thr Val Leu Leu Val Pro Arg Asn Leu Glu Tyr Glu Phe Ala Glu Ala
225 195 200 205
228 Trp Glu Thr Ser Ser Asp Ala Asp Asp Gln Ile Asp Tyr Val Thr Glu
229 210 215 220
232 Asp Leu Ala Gly Phe Leu Arg Ser Val Ile Val
233 225 230 235
236 <210> SEQ ID NO: 11
237 <211> LENGTH: 32

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238 <212> TYPE: DNA  
239 <213> ORGANISM: Artificial Sequence  
241 <220> FEATURE:  
242 <223> OTHER INFORMATION: Primer P101  
244 <400> SEQUENCE: 11  
245 gaagcttccc gggccgtgtc ataaacccgc cc 32  
248 <210> SEQ ID NO: 12  
249 <211> LENGTH: 32  
250 <212> TYPE: DNA  
251 <213> ORGANISM: Artificial Sequence  
253 <220> FEATURE:  
254 <223> OTHER INFORMATION: Primer P102  
256 <400> SEQUENCE: 12  
257 caagcttccc gggatcatcg ccgggtttta cg 32

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/528,845A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 12,18

Seq#:6; N Pos. 12,15

**VERIFICATION SUMMARY**

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0